ABSTRACT OF THE DISCLOSURE:

To realize spraying that is asymmetrical in the flow rate distribution of a sprayed fuel in order to improve the homogeneity of air-fuel mixture density during the air intake stroke injection for homogeneous combustion in an in-cylinder injection engine. By providing the exit portion of the fuel injection hole with the wall surfaces 204a, 204b, 205a, and 205b that are parallel to the central axis of the injection hole, further providing the periphery of the injection hole with an plurality of areas in which the flow of the fuel in the radial direction of the injection hole will be restrained, and an plurality of areas in which the flow of the fuel in the radial direction of the injection hole will not be restrained, and assigning a different size to each non-restraint area.

Selected Figure: FIG. 3